

## Section II-iii-J

### Water Management

Interpretations of soils for water management are given as limitations for pond reservoir areas; embankments, dikes, and levees; excavated pond (aquifer-fed); and as restrictive features that affect drainage, irrigation, terraces and diversions, and grassed waterways.

Pond reservoir area is the area that holds water behind a dam or embankment. Soils best suited to this use have a low seepage potential, which is determined by the permeability and depth to fractured or permeable bedrock, or other permeable material.

Embankments, dikes, and levees are raised structures of soil material constructed to impound water or protect land against overflow. They generally are less than 20 feet high and are constructed of "homogeneous" soil material (without a core zone) and compacted to medium density.

Excavated ponds (aquifer-fed) are bodies of water created by excavating a pit or dugout into a ground-water aquifer. Excluded are ponds which are fed by surface runoff or that have embankments that impound water 3 feet or more above the original surface.

Drainage is the process of removing excess surface and subsurface water from agricultural land. Soil features are listed that affect grading, excavation, and stability of trench sides or ditchbanks. Features are also listed which might affect productivity after drainage is installed. The availability of drainage outlets must also be considered.

Irrigation is the controlled application of water to supplement rainfall for supporting plant growth. Soil features are listed that affect design, layout, construction, management, or performance of an irrigation system.

Terraces and diversions are embankments or a combination of an embankment and a channel constructed across a slope to control erosion by diverting or storing surface runoff instead of permitting it to flow uninterrupted down the slope. Soil features are listed that affect the construction of terraces and diversions and that may cause problems after construction.

Grassed waterways are natural or constructed channels that generally are broad and shallow and are covered with erosion-resistant grasses. They are used to conduct surface water to outlets at a nonerosive velocity. Soil features are listed that affect the construction and maintenance of the waterway, and also that affect the growth of grass after construction.

See the National Soil Survey Handbook, Part 620, for criteria used in rating specific uses.

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## Knox and Lincoln County

Soil name and map symbol	Limitations For			Features Affecting			
	Pond Reservoir areas	Embankments ,Dikes, and Levees	Aquifer-fed Excavated Ponds	Drainage	Irrigation	Terraces and Diversions	Grassed Waterways
<b>AdB</b> ADAMS	Severe: seepage	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake, slope	Limitation: soil blowing, too sandy	Limitation: droughty
<b>AdC</b> ADAMS	Severe: seepage, slope	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake, slope	Limitation: slope, soil blowing, too sandy	Limitation: droughty, slope
<b>AdD</b> ADAMS	Severe: seepage, slope	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake, slope	Limitation: slope, soil blowing, too sandy	Limitation: droughty, slope
<b>AgA</b> ALLAGASH	Severe: seepage	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty	Limitation: too sandy	Limitation: droughty
<b>AgB</b> ALLAGASH	Severe: seepage	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: too sandy	Limitation: droughty
<b>AgC</b> ALLAGASH	Severe: seepage, slope	Severe: piping, seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: slope, too sandy	Limitation: droughty, slope
<b>Be</b> BEACHES	Severe: seepage	Severe: piping, seepage, wetness	Severe: cutbanks cave, salty water	Limitation: cutbanks cave, flooding, slope	Limitation: droughty, slope, wetness	Limitation: soil blowing, too sandy, wetness	Limitation: droughty, excess salt, wetness

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	Pond Reservoir areas	Embankments ,Dikes, and Levees	Aquifer-fed Excavated Ponds	Drainage	Irrigation	Terraces and Diversions	Grassed Waterways
<b>Bg</b>  BIDDEFORD	Slight:	Severe: hard to pack, ponding	Severe: slow refill	Limitation: frost action, percs slowly, ponding	Limitation: percs slowly, ponding	Limitation: erodes easily, percs slowly, ponding	Limitation: erodes easily, percs slowly, wetness
<b>BoB</b>  BOOTHBAY	Moderate: slope	Severe: piping, wetness	Severe: slow refill	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, wetness	Limitation: erodes easily, wetness
<b>BoC</b>  BOOTHBAY	Severe: slope	Severe: piping, wetness	Severe: slow refill	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, slope, wetness	Limitation: erodes easily, slope, wetness
<b>BoD2</b>  BOOTHBAY	Severe: slope	Severe: piping, wetness	Severe: slow refill	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, slope, wetness	Limitation: erodes easily, slope, wetness
<b>Bp</b>  BOROSAPRISTS	Severe: seepage	Severe: excess humus, ponding	Severe: slow refill	Limitation: frost action, ponding	Limitation: ponding	Limitation: ponding	Limitation: wetness
<b>BsB</b>  BRAYTON	Moderate: seepage, slope	Severe: piping, wetness	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: slope, wetness	Limitation: percs slowly, wetness	Limitation: wetness
<b>BtB</b>  BRAYTON	Moderate: seepage, slope	Severe: piping, wetness	Severe: no water	Limitation: frost action, percs slowly, Slope	Limitation: droughty, slope, wetness	Limitation: percs slowly, wetness	Limitation: wetness

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<b>BuB</b>  BUXTON	Moderate: slope	Severe: hard to pack, wetness	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, wetness	Limitation: erodes easily, wetness
<b>BuC</b>  BUXTON	Severe: slope	Severe: hard to pack	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, slope, wetness	Limitation: erodes easily, rooting depth, slope
<b>BuD2</b>  BUXTON	Severe: slope	Severe: hard to pack	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: erodes easily, slope, wetness	Limitation: erodes easily, rooting depth, slope
<b>Ch</b>  CHARLES	Moderate: seepage	Severe: piping, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, flooding, frost action	Limitation: flooding, wetness	Limitation: erodes easily, wetness	Limitation: erodes easily, wetness
<b>Dp</b>  DUMPS	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable
<b>PITS</b>	Severe: depth to rock	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock	Limitation: depth to rock	Limitation: depth to rock
<b>EgB</b>  ELDRIDGE	Severe: seepage	Severe: piping, wetness	Severe: cutbanks cave, slow refill	Limitation: cutbanks cave, slope	Limitation: droughty, wetness	Limitation: erodes easily, wetness	Limitation: erodes easily, wetness

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<b>HeB</b> HERMON	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: large stones, too sandy	Limitation: droughty, large stones
<b>HeC</b> HERMON	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>HtB</b> HERMON	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: large stones, too sandy	Limitation: droughty, large stones
<b>HtC</b> HERMON	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>HtD</b> HERMON	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>HxB</b> HERMON	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: large stones, too sandy	Limitation: droughty, large stones
<b>HxC</b> HERMON	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, large stones, slope	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope

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<b>Le</b>  LOVEWELL	Severe: seepage	Severe: piping, seepage, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, flooding, frost action	Limitation: flooding, wetness	Limitation: erodes easily, too sandy, wetness	Limitation: erodes easily
<b>LmB</b>  LYMAN	Severe: depth to rock	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock	Limitation: depth to rock, droughty
BRAYTON VARIANT	Moderate: depth to rock	Severe: piping, wetness	Severe: no water	Limitation: depth to rock, frost action, percs slowly	Limitation: wetness	Limitation: depth to rock, large stones, wetness	Limitation: depth to rock, large stones, wetness
ROCK OUTCROP	Severe: depth to rock	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock	Limitation: depth to rock
<b>LrB</b>  LYMAN	Severe: depth to rock	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock	Limitation: depth to rock, droughty
ROCK OUTCROP	Severe: depth to rock	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock	Limitation: depth to rock
TUNBRIDGE	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, large stones	Limitation: droughty, large stones

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<b>LrC</b>  LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
ROCK OUTCROP	Severe: depth to rock, slope	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock, slope	Limitation: depth to rock, slope
TUNBRIDGE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, large stones, slope	Limitation: droughty, large stones, slope
<b>LrE</b>  LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
ROCK OUTCROP	Severe: depth to rock, slope	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock, slope	Limitation: depth to rock, slope
TUNBRIDGE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, large stones, slope	Limitation: droughty, large stones, slope
<b>MaB</b>  MADAWASKA	Severe: seepage	Severe: piping, seepage, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, slope	Limitation: droughty, slope, wetness	Limitation: too sandy, wetness	Limitation: droughty, wetness

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<b>MrB</b>  MARLOW	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
<b>MrC</b>  MARLOW	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>MrD</b>  MARLOW	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>MsB</b>  MARLOW	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
<b>MsC</b>  MARLOW	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>MsD</b>  MARLOW	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
<b>MtB</b>  MARLOW	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, Slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth



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<b>MtB</b>  BERKSHIRE	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope, soil blowing	Limitation: large stones, soil blowing	Limitation: large stones
<b>MtC</b>  MARLOW	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
  BERKSHIRE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: slope, soil blowing	Limitation: large stones, slope, soil blowing	Limitation: large stones, slope
<b>MwB</b>  MARLOW	Moderate: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly	Limitation: percs slowly, rooting depth
  BERKSHIRE	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones	Limitation: droughty, large stones
<b>MwC</b>  MARLOW	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
  BERKSHIRE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, slope	Limitation: droughty, large stones, slope

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<b>MwD</b>  MARLOW	Severe: slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: percs slowly, rooting depth, slope	Limitation: percs slowly, slope	Limitation: percs slowly, rooting depth, slope
  BERKSHIRE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, slope	Limitation: droughty, large stones, slope
<b>MxB</b>  MASARDIS	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, too sandy	Limitation: droughty, large stones
<b>MxC</b>  MASARDIS	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>MxD</b>  MASARDIS	Severe: seepage, slope	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, slope	Limitation: large stones, slope, too sandy	Limitation: droughty, large stones, slope
<b>My</b>  MEDOMAK	Moderate: seepage	Severe: piping, ponding	Severe: cutbanks cave	Limitation: flooding, frost action, ponding	Limitation: flooding, ponding	Limitation: erodes easily, ponding	Limitation: erodes easily, wetness
<b>Na</b>  NAUMBURG	Severe: seepage	Severe: piping, seepage, wetness	Severe: cutbanks cave	Limitation: cutbanks cave	Limitation: droughty, fast intake, wetness	Limitation: too sandy, wetness	Limitation: droughty, wetness

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<b>PaB</b>  PERU	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: soil blowing, wetness	Limitation: percs slowly, rooting depth
<b>PaC</b>  PERU	Severe: slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: slope, soil blowing, wetness	Limitation: percs slowly, rooting depth, slope
<b>PbB</b>  PERU	Moderate: seepage, slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, wetness	Limitation: percs slowly, rooting depth
<b>PbC</b>  PERU	Severe: slope	Severe: piping	Severe: no water	Limitation: frost action, percs slowly, slope	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, slope, wetness	Limitation: percs slowly, rooting depth, slope
<b>Pg</b>  PITS	Severe: seepage	Severe: seepage	Severe: no water	Limitation: deep to water	Limitation: droughty, fast intake	Limitation: large stones, too sandy	Limitation: droughty, large stones
<b>Rc</b>  ROCK OUTCROP	Severe: depth to rock, slope	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock, slope	Limitation: depth to rock, slope
<b>RmC</b>  ROCK OUTCROP	Severe: depth to rock, slope	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock, slope	Limitation: depth to rock, slope

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<b>RmC</b>  LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>RmE</b>  ROCK OUTCROP	Severe: depth to rock, slope	Slight:	Severe: no water	Limitation: deep to water	Limitation: depth to rock, slope	Limitation: depth to rock, slope	Limitation: depth to rock, slope
  LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>Sc</b>  SCANTIC	Slight:	Severe: hard to pack, wetness	Severe: no water	Limitation: frost action, percs slowly	Limitation: percs slowly, wetness	Limitation: erodes easily, percs slowly, wetness	Limitation: erodes easily, rooting depth, wetness
<b>Sp</b>  SEARSPORT	Severe: seepage	Severe: piping, ponding, seepage	Severe: cutbanks cave	Limitation: cutbanks cave, ponding	Limitation: ponding	Limitation: ponding, too sandy	Limitation: wetness
<b>StB</b>  SHEEPSHOT	Severe: seepage	Severe: seepage, wetness	Severe: cutbanks cave	Limitation: cutbanks cave, large stones, slope	Limitation: droughty, slope, wetness	Limitation: large stones, wetness	Limitation: droughty, large stones
<b>Su</b>  SULFIHEMISTS	Severe: seepage	Severe: excess humus, excess salt, ponding	Severe: salty water	Limitation: excess sulfur, flooding, ponding	Limitation: excess salt, flooding, ponding	Limitation: ponding	Limitation: excess salt, wetness

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<b>Su</b>  SULFAQUENTS	Slight:	Severe: excess humus, piping, ponding	Severe: salty water, slow refill	Limitation: flooding, percs slowly, ponding	Limitation: flooding, percs slowly, ponding	Limitation: erodes easily, percs slowly, ponding	Limitation: erodes easily, excess salt, wetness
<b>Sw</b>  SWANVILLE	Slight:	Severe: piping, wetness	Severe: slow refill	Limitation: frost action, percs slowly	Limitation: percs slowly, wetness	Limitation: erodes easily, percs slowly, wetness	Limitation: erodes easily, rooting depth, wetness
<b>TrB</b>  TUNBRIDGE	Severe: seepage	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope, soil blowing	Limitation: depth to rock, soil blowing	Limitation: depth to rock, droughty
  LYMAN	Severe: depth to rock	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock	Limitation: depth to rock, droughty
<b>TrC</b>  TUNBRIDGE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope, soil blowing	Limitation: depth to rock, slope, soil blowing	Limitation: depth to rock, droughty, slope
  LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>TrD</b>  TUNBRIDGE	Severe: seepage, slope	Severe: piping	Severe: no water	Limitation: deep to water	Limitation: droughty, slope, soil blowing	Limitation: depth to rock, slope, soil blowing	Limitation: depth to rock, droughty, slope

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## Knox and Lincoln County

Soil name and map symbol	Limitations For			Features Affecting			
	Pond Reservoir areas	Embankments ,Dikes, and Levees	Aquifer-fed Excavated Ponds	Drainage	Irrigation	Terraces and Diversions	Grassed Waterways
<b>TrD</b>  LYMAN	Severe: depth to rock, slope	Severe: piping, thin layer	Severe: no water	Limitation: deep to water	Limitation: depth to rock, droughty, slope	Limitation: depth to rock, slope	Limitation: depth to rock, droughty, slope
<b>Ud</b>  UDORTHENTS	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable
  URBAN LAND	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable	Limitation: variable